

Lotrène® LLDPE Q2018C

Linear Low Density Polyethylene

QATOFIN Company Limited

Message:

Lotrène® Q2018C can be processed at optimal output rates with moderate extrusion pressure, good web stability and gauge control on cast film machines designed for LLDPE.

Lotrène® Q2018C can advantageously be blended with LDPE or other PE resins used in cast film mono extrusion or co-extrusion to improve film properties.

Lotrène® Q2018C is suited for many applications in the field of consumer, industrial, food or hygiene packaging as well as stretch film and non-packaging applications like agricultural films e.g. mulching films.

General Information			
Additive	heat stabilizer		
Features	Thermal Stability		
Uses	Packaging		
	Films		
	Industrial application		
	Mixing		
	cast film		
	Agricultural application		
	Food packaging		
	Consumer goods application field		
Processing Method	Film extrusion		
	Co-extruded film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Puncture Energy (20 μm)	1.60	J	ASTM D5748
Film Puncture Force (20 μm)	25.0	N	ASTM D5748
secant modulus			ASTM D882
1% secant, MD: 20 μm, cast film	165	MPa	ASTM D882
1% secant, TD: 20 μm, cast film	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 μm, extruded film	9.70	MPa	ASTM D882
TD: Yield, 20 μm, extruded film	9.60	MPa	ASTM D882
MD: Fracture, 20 μm, extruded film	37.0	MPa	ASTM D882
TD: Fracture, 20 μm, extruded film	23.0	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Fracture, 20 µm, extruded film	330	%	ASTM D882
TD: Fracture, 20 µm, extruded film	670	%	ASTM D882
Dart Drop Impact ¹ (20 µm, Cast Film)	35	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 20 µm, cast film	12	g	ASTM D1922
TD: 20 µm, cast film	190	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525 ²
Peak Melting Temperature	121	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 µm, Cast Film)	92		ASTM D2457
Haze (20.0 µm, Cast Film)	1.8	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Extrusion Rate	> 6.7	m/sec	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 250	°C	
Cylinder Zone 2 Temp.	180 - 250	°C	
Cylinder Zone 3 Temp.	180 - 250	°C	
Cylinder Zone 4 Temp.	180 - 250	°C	
Cylinder Zone 5 Temp.	180 - 250	°C	
Melt Temperature	220 - 250	°C	
Extrusion instructions			
Die gap: >0.8 mm			
NOTE			
1.	F50		
2.	标准 B (120°C/h), 压力1 (10N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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